

# FIGURE 1A

TTCCCTCGCGAAGGCTCCTTGATATTAATAGTGTGGTGTCTGAAACTGACGTAATGCGCGG  
AGACTGAGGTCTGACAAGCGATAACATTCTGATAAAAGACCCGATCTTACTGCAATCTCTAG  
CGTCCTCTTTGGTGTGCTGGTCTCCAGACCTCGCGTCTCTCGATTGCTCTCGCCCT  
CCTATTCCTTTTTTTAAACAAAAAACAACACCCCCCTCCCCTCTCCCACCCGGCACCG  
GGCACATCCTTGCTCTATTCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
GGTGGGGAGGGAAAGGGGGGGATGCAGGAAAGACCTTTCTCTCTCCCCCGCAATAATC  
CAAGATCAACTCTGCAAACAAACAGAACAGACGGTTCATGGCTTGGCGGCCACCATCTT  
CGGGCTGCCAGGGTGTCTTGACGATTAAATCAACAGATGTACAGATCAGCTCTAAAATGTC  
TTCTGTGTCTTGAGCGTCTCTAAGACAATTGCAATTAGCCTCTGCTAGTTGACTAATAGAA  
TTAATAATGTAAGGAAAGCACTCTAAAGCCACATGCCATGAAGTCATGCTGGTATGATT  
TACAAATATGTCGGAAAAGAACCCCCCTCTGAGAAACGGTTGCAAGTGAAGGCAGGGCC  
AGATCCTGGAGCTATAGGTACAGAAAGCAAGGTATCTGAAAGAACAAAGAACATTTCTGCA  
GATCAGATGTCAGAAAATACGGATCAGAGTGTGTCAGAACATAAGGAGGAACA  
TAGCTGCAATGTCAGATCCAAGATCTCTAGCAGTAAGAAGGACTTGAAAAGCGCAGTCTGAG  
TGAGAAGGCTGGCTCAATTATGAAAGCCCCAGTAAGGGAGGAAACTTCCCTCTTCCGCA  
TGATGAGGTGACAGACAGAAATATGTTGGCTTCTCATCTCCAGCTGCTGGGGAGTGTGTA  
GCCCTGAAGTCTCCGCAAAGAGCAGAGCAGATGACCCCTCAAGATATGGCCTGACCCCCCTC  
AGGGGACTCACTGGAGACAAGGAAGATCAGAAGATGTCACCAAAGGCTACAGAGGAAACA  
GGCAAGCACAGAGTGGTCAAGCCAATTGCAAGGTTGAGCCCAGTTCAAGTGGCTCAA  
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TGAATGACAACCCAGACCCGGACCTCTGCTCCAGAGCTCAGGACTTAAATGCAATATCT  
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ACTTCAGGTGGAACATTCAATTGGCATTGGACGGAAAACACCAGATTGCAAGGGAACACCAA  
GTATTCGCGTGTAAATTCTGCAATTCACTTATGGGCAACTCATCCACCGAAATTAGAACAA  
CATTTCTCAGACTCACCCAAACAAAATAAGCTTCTCTCCCTCTGAGGTTGCAAAAC  
CTTCAGAGAAAATCTAACAAGTCATCCCTGCACCTCAATCCAGTGAATTCTGGAGACTTGG  
GAAAATGGCAGGACAAGATAACAGTCAAAGCAGGAGATGACACTCCTGTTGGTACTCAGTG  
CCCATAAAGCCCCCTGATTCTCTAGACAAAATGGTACAGAGGCCACAGTTACTACTGGTGT  
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CAGCACGGAGCAGTGCAGTCAGGCGGCCITAATCCAGAGTTAAATGATAAGCTTCCAGGGG  
CTCTGTCTTAATCAGAATGATCTAGCCTAAAGTCAGAAGGAGAGACAATGACCAAGACAG  
ACAAGAGCTCGAGTGGGCTAAAAGAAGGACTTCTCCAGCAAGGGAGGCCAGGATAATATG  
GTAACGAGCTATAATTGTCAGTTCTGTGACTTCCGATATTCCAAAAGCCATGGCCCTGATGTA  
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ATCCGTTGCTGTAGAAAAAGTAATTGTCAGTCCACTGTGACTCTGCTCTGCACTTGTCTCC  
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CGTAGATGACTCCTCTTCACTATGAAAATGTCAGTGCAGTCCAAAGCAGTCAGGATAAC  
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CACACAGCTGCTACAAATGCCGTAGTGCAGTTTACAGTGCAGTCCAAAGCAGTCAGTCACTACTGG  
AGCACTTCACACTGTCAGTGCAGGAAACAGGACATCACTACAGCCAACGGCGAAGAGGAG  
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CTCAGGGAAATAGGGCTAAATACTGAACATTAAATAATTGGTTAAAGGTGCTGTAGTCAG  
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CATTTGAGAAATTATTGATAAGTGTGCTGGAACTGCAACGCTGATTGTTGCA  
GTAGTCGCATTGCACTCCATTTCACATTAAATTGCAAGTGTCTATTGTTGTTGG  
GTTTGTGTTCTTTCACAGTGCCGGTCTCGTTCTAAAGTTGGATGGCAGGTAGAGTTCA  
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TTTCATTGCAATTGTTGTTGCAATTAAAGAGAAAGAGAAAGCAAGAGACAGA

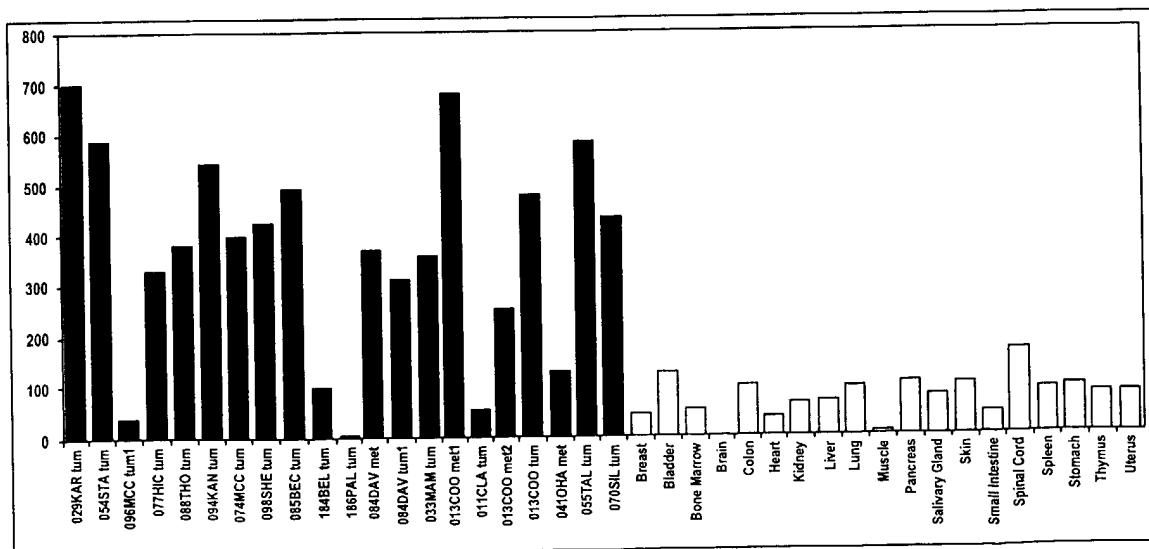
## FIGURE 1B

AATCAGGACTAAGTCCTCTGCTTCAGTTCA~~T~~GGTAACGGGCCITATTCTGATCTCACCTGTC  
 GCGTAGCTCTAATATTACATAAACTGAAATAAAGAAGTGGAA~~T~~GAGGAGCTTGACATTCA  
 AATTATGTGATGTAATTATCTTCCTAGGAATTGATGGATGCATCTAAAATGTATAGCCA  
 GACTTGAGAGGTGACAATTAAAGATCTAAAAAGAGAGGAGATTCCCCAAACAACAATT  
 TAATTTCCTAGTAAAAGAATAACAGAACGAGTCTGGCAATCTTAAGCAACATTATCTAT  
 GTGGACTGCTAAATCAGCAAACACCAGAAGTTGGTAAC~~T~~GGCAATATGACAAGTATT  
 ACTTTGGC~~AA~~ACTACTCATTAAGCAATTCTCTAGTGTGTCGGACACAAATAGGTTCTT  
 ATTTTGGCATGTATGCCTTTTATTTCATTCAATTTTTTCTCAGACAGACATAGTAG  
 TATCAACTAGCATTGAAAATACATATCACTATTCTGGAA~~T~~TTATGGTCAGTCTACTTTT  
 AGTAAAATATTGGATAGCGITGACACGATAGATCTTACCCATACTCTTATTATTGATA  
 ATT~~TT~~ATTTCATTTCATTGCTTCTCATTATTATA~~C~~ATATTGGTGGAGAAGAGGTTGGCTTTT  
 TGAAAGAGACAAAAATTATAACACTAAACACTCCTTTGACATATTAAAGCCTTATT  
 CCATCTCTCAAGATATTATAAAATTATTATAAGATTCTGAATTATTATCTT  
 AAATTGTGATTTAAACGAGCTATTATGGTACGGAACTTTTAATGAGGAATTCTCATGATGA  
 TTAGGAATTCTCTGGAAAAGGCTCCCTGTGATGAAAATGATGTGCCAGCTAAATT  
 GTGTGCCATTAAA~~A~~CTGAA~~A~~ATT~~TT~~AAAATTATTGTCTATTCTAAATTGAGCTTGG  
 ATCAAACCTT~~A~~GGCCAGGACCCTCATGCGTCTCATCTCCCTTC~~A~~CTCTCAT  
 CACTCACCTCTGTATTCTCATTCTGTTGGATAGAAAATCATAAAAGGCCAACCAATCTC  
 AGAACGTTG~~G~~ATTGAGAGAGACACTACATGACTCCAAGTATGAGAAAAGGACAGAGCT  
 CTAATTGATAACTCTGAGTTCAAAAGGAAAAGAGTATGCCAATTCTCTACATGACATAT  
 TGAGATT~~TT~~TAATCAACTTTAAGATAGTGTGTTCTAAACTGTTCTGTTAGTGA  
 AGGTAGATT~~TT~~TATAAAACAGCATGGGATTCTTCTAAGGTAA~~T~~TAATGAGAAGGAA  
 AAAAGTATCTTAAACAGCTTTGTAAGCCTGTTAGCACATTATGTTATAATTGCACAT  
 GTGCACATAACTATTATGATCCAATGCAA~~A~~ACAGCTCCAAAATATTAAATGTATATAT  
 TTTAAAATGCCTGAGGAA~~A~~ACATT~~TT~~CTTAATAAA~~A~~CTGAAGAGTCTCAGTATGGCTATTAA  
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 CCAGTGGTGGAAATGTGGAGTAAAGAAGCTGGTGGTCTGCTTCTGCTGTATGCCAGCCTT  
 TGCC~~T~~TAAGTTGAGAGGAGGTCAACTT~~A~~GCTACTGTC~~T~~GGTTGAGAGGCCATGGCAAAA  
 AAAAAGGAAAGGAAAGATCAAGT~~G~~CTTGGTGA~~G~~CCAGTAAGGTGAAAGCTGCTGACT  
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 TAATCAAAGGTAGGTACTGTTAGGTGAATTCTATCAGCAGGCAACTGCAAATGAGAAG  
 ATAGAAGGACGCCGTCGGACTTGGAGGGCATTGTTATT~~CC~~AAAGAAAGACGGCAA  
 GGGCAGAGGCATGGATTCTTGAGAGCATTCC~~T~~GGTTGCTAGTACTGTTCATAGACA  
 GTGGGCTCACATGTTCTGATAGT~~G~~CTGAGT~~G~~CTTGA~~A~~AGCATCCCAGTTAATTGAGTA  
 ATTAGAACTCTGGAATATGCTAGGGCAGAAGTATGTCAGTACATT~~C~~ATGTTCTGTTGAAA  
 GAAATTCAAGAGTAATCCACACGTGAGAAA~~A~~CTAGACAA~~T~~GTACATT~~C~~ATGTTCTGTTGAAA  
 GGAAAGGGAGAGCTGAA~~G~~CTCACTCTGCTTACACC~~G~~GGAAAAGCAGGAATAACTTAC  
 CGTGGAAATAATGTTAGCTT~~T~~ATCAGAGAAAATTGCTTCTAGACATAGAGT~~G~~CCAAAA  
 CTCAATTCTGGTTTCCCTGTTTTTTTTT~~T~~CC~~A~~ACATATGA~~A~~CTG~~C~~AGC~~A~~  
 ATCACTTTCTTTG~~G~~CCTCAGGTTCTCAS~~T~~G~~T~~AAAATTGAAAAATATGTATTA  
 ATAATATTATAATAATAATGGTAATG~~T~~AGTACTGTTGTAAGC~~A~~CTT~~G~~AG~~A~~TC  
 CTTGGTTGAAAGGCACCATAGGAGT~~G~~CC~~A~~GTATTATTATG~~G~~CC~~A~~AGGGTTATT  
 AAAC~~T~~GT~~C~~AGT~~T~~CC~~A~~AGGGCAGGAAAGGTTGGGTCATT~~T~~CTAAAGACGAGCTG  
 TAAATATCAACTAGGCAG~~C~~CAATAGT~~G~~TTGACTATGAAGATG~~C~~AAACTATTACTAGGCT  
 GATAAAATCATAGTTCTTAATGGCTACCAATAAGGCAAA~~A~~ATCACAATAAAACGCCA  
 AATTCTTAAGGCGGACTATTGACAACACATGGAAA~~A~~CTTGGGGAGGCATGAGGG  
 GGGACATCTCAAATGCCAATGTAAAATTAACTACAGCAATATT~~C~~ACCAGCAGAAAA  
 TGTCTT~~C~~ATATGGAATGATT~~C~~ATGTTGCTAAGAAAAAGAATTCAATTG~~T~~AGT~~C~~CTG  
 TTGAAATACTAGAATGTTGGCTATAATAGTTCTGTTCTTACAACACATGAAATT~~T~~CGT  
 TT~~T~~ATT~~T~~ATT~~T~~GT~~T~~TCATAGT~~G~~CATGTT~~T~~ACTCACAACACATGTTCTGGTGT  
 ATTCTT~~T~~ATG~~C~~AAACATCTCAGG~~C~~AG~~C~~AAAGATG~~T~~CTGTTACATCTAAACTG~~A~~ATAA  
 TAAAGTTTACCA~~C~~CCAG~~T~~ACACATAACGGG~~G~~GTGGTATGGTTATATGGATT~~T~~ACT  
 ATCCTTCTAGGCAATAGGGAA~~A~~ACAGATCATGTAATATATATATATACAGGC  
 TCTGCTGAANTGAA~~A~~ATGGTGA~~A~~ATCAAAC~~A~~CCATTCTAA~~A~~AAATTACTTATATTGA  
 TAAAGCCTGGANTCTCTCAACTGTTT~~G~~CTT~~G~~CTTTCTTAACCAATCAATCT  
 TACTGATAGATT~~T~~GTGAAAAAGATATATACTAGT~~T~~CTCAGAAAGATTAACAATAAA  
 AATTGTGTTATTCAAAAAAA

# FIGURE 1C

MVRKKNPPLRNVASEGEGQILEPIGTESKVGKNKEFSADQMSETDQSDAAELNHKEEHLHVQ  
 DPSSSSKKDLKSAVLSEKAGFNYESPNSKGNNPSFPHEVTDRNMLAFSSPAAGGVCEPLKSPQRA  
 EADDPQDMACTPSGDSETKEDQKMSPKATEETGQAQSGQANCQGLSPSVASKNPQVPSDGGV  
 RLNKSKTDLVNDNPDPAPLSPELQDFKCNCIGYGYGNDPTDLIKHFRKYHLGLHNRRTRQDAEL  
 DSKILALHNMVQFSHSKDFQKVNRSVFSGVLQDINSSRPVLLNGTYDVQVTSGGTFIGIGRKTPDC  
 QGNTKYFRCKFCNFTYMGNSSTELEQHFLQTHPNKIKASLPSSEVAKPSEKNSNKSI  
 PAHQSSDGD LGKWQDKITVKAGDDTPVGYSVPIKPLDSSRQNGTEATSYWCKFCFSCESSSLK  
 LEHYGKQ HGAVQSGGLNPELNDLRLSGSVINQNDLAKSSEGETMTKTDKSSSGAKKKDFSSKG  
 AEDNMVTS YNCQFCDFRYSKSHGPDVIVVGPLLHYQQLHNIHKCTIKHCPFCPRGLCSPEKHL  
 GEITYPFACRK SNC SHCALLLHLSPGAAGSSRVKHQCCHQCSFTIPDVDVLLFYEVHESQASDV  
 KQEANHLQGS DGQQSVKESKEHSCTKCDFITQVEEEISRHYRAHSCYKCRQCSFTAADTQS  
 LLEHFNTVHCQECD ITTANGEEDGHAISTIKEEPKIDFRVYNLLTPDSKMGEPV  
 SESVVKREKLEEKDGLKEKVWTBESSD DLRNVTWRGADILRGSPSYTQASLGLL  
 PVS GTQEQTTLRDSPNVEAAHLARPIYGLA VETKGFL QGAPAGGEKSGALP  
 PQQYPASGENSKDESQSLRRRRSGVFCANCLTTKTSLWRK NANGGYVC  
 NACGLYQKLHSTPRPLNIKQNNGEQIIRRRTKRLNPEALQAEQLNKQQRGS  
 NEBVQVNGSPLERR SEDHLTESHQREIPLPSLSKYEAQGS  
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 KLSVPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPH  
 FSAVGSDNDIPLDLAIKHSRP  
 GPTANGASKEK TKAPPNVKNEGPLNVVKTEKVD  
 RSTQDELSTKCVHCGIVFLDEV  
 MYALHMSCHGDSGP  
 FQCSICQ HLCTDKYDIFTTHIQRGLHRNNAQVEKNGKPKE

## FIGURE 2



## FIGURE 3